

MATERIALS ENGINEERING LABORATORY
DATA REPORT
PLENCO 01500
 Polyester
 compression molded

PLENCO 01500 is a general purpose, mineral filled granular polyester molding compound, offering excellent arc and track resistance, and low post shrinkage characteristics. UL recognized under component file E40654. 01500 is available in black or tan color.

PROPERTY	metric	english	ASTM Test Method
Form	granular		
Apparent Density	0.83 g/cm ³	51.8 lb/ft ³	D1895
Specific Gravity	1.86		D792
Mold Shrinkage	0.0060 m/m	0.0060 in/in	D6289
Post Shrinkage 72hr 120°C	0.06 %		D6289
Izod Impact Notched	16.5 J/m	0.31 ft-lb/in	D256
Charpy Impact Notched	17.9 J/m	0.34 ft-lb/in	D256
Drop Ball Impact	61 J/m	1.1 ft-lb/in	Plenco
Tensile Strength	34 MPa	4,985 psi	D638
Tensile Modulus	12,490 MPa	1,812,000 psi	D638
Tensile Elongation	0.4 %		D638
Flexural Strength	65.7 MPa	9,525 psi	D790
Flexural Modulus	10,586 MPa	1,535,000 psi	D790
Compressive Strength	147 MPa	21,366 psi	D695
Heat Resistance	188 °C	370 °F	D794
Deflection Temperature 1.82MPa	179 °C	355 °F	D648
Water Absorption	0.33 %		D570
Rockwell Hardness	65 E scale		D785
Dielectric Strength short time	13.5 kV/mm	343 V/mil	D149
Dielectric Strength Step	10.7 kV/mm	271 V/mil	D149
Dissipation Factor, 1MHz	0.026		D150
Permittivity, 1MHz	5.1		D150
Volume Resistivity	4.6E+14 ohm-cm	1.8E+14 ohm-in	D257
ASTM Arc Resistance	190 sec		D495
Comparative Tracking Index	600 V		D3638
UL Flammability	V-1 @3.00mm		UL 94
Oxygen Index	33.8 %		D2863
Thermal Expansion	6.5E-05 /°C	3.6E-05 /°F	E831
Thermal Conductivity 100°C	0.76 W/m/°C	0.44 Btu/hr/ft/°F	E1461

Prior to molding compression electrical specimens, material is dried 30 min @ 90C, 110C preheat.

Store in cool dry place.

The Typical Values listed are results obtained from the testing of standard specimens using the stated test procedures, with said specimens molded under controlled laboratory conditions from representative samplings of the product. Although Plastics Engineering Company at all times reserves the right to make changes in the materials, suppliers and processing, the values listed as typical are those to be expected at the time of our manufacture. The final determination of the accuracy or completeness of any information, the suitability of the product for the use contemplated, the manner of its use, and the matter of any infringement of patents in use, are all the sole responsibility of the user. PLASTICS ENGINEERING COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, INCLUDING NO WARRANTY OF THE MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Plastics Engineering Company reserves at all times the right to discontinue the production of any or all of its products. This is an uncontrolled copy and not subject to updates.